



Monday, April 29, 2019

Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Project ID: NPDES (BI-MONTHLY APRIL)
SDG ID: GCD00633
Sample ID#s: CD00633

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

April 29, 2019

SDG I.D.: GCD00633

Project ID: NPDES (BI-MONTHLY APRIL)

Client Id	Lab Id	Matrix
EFFLUENT	CD00633	WASTE WATER



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Analysis Report

April 29, 2019

FOR: Attn: Mr. Keith Gammell
Barnhardt Mfg. Co.
247 Main Rd
P.O. Box 3
Colrain, MA 01340

Sample Information

Matrix: WASTE WATER
Location Code: BARNHARD
Rush Request: Standard
P.O.#: G10513

Custody Information

Collected by:
Received by: CP
Analyzed by: see "By" below

Date

04/24/19
04/24/19

Time

7:00
16:00

Laboratory Data

SDG ID: GCD00633
Phoenix ID: CD00633

Project ID: NPDES (BI-MONTHLY APRIL)
Client ID: EFFLUENT

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Ammonia as Nitrogen	< 1.00	1.00	mg/L	20	04/27/19	KDB	E350.1
Nitrite-N	0.042	0.010	mg/L	1	04/24/19 18:27	TB	E353.2
Nitrate-N	11.6	0.20	mg/L	10	04/24/19 18:29	TB	E353.2
Nitrogen Tot Kjeldahl	11.4	2.00	mg/L	20	04/27/19	KDB	E351.1
Total Nitrogen	23.0	0.10	mg/L	1	04/27/19	KDB	SM4500NH3/E300.0-97

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

April 29, 2019

Reviewed and Released by: Bobbi Aloisa, Vice President



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QA/QC Report

April 29, 2019

QA/QC Data

SDG I.D.: GCD00633


Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 476176 (mg/L), QC Sample No: CD00317 (CD00633)													
Nitrate-N	BRL	0.02	0.03	0.02	NC	107			104			90 - 110	20
Nitrite as Nitrogen	BRL	0.01	0.02	<0.01	NC	103			101			90 - 110	20
QA/QC Batch 476438 (mg/L), QC Sample No: CD00583 (CD00633)													
Ammonia as Nitrogen	BRL	0.05	10.8	10.6	1.90	97.4			108			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	15.1	14.68	2.80	102			99.5			85 - 115	20

Comment:

TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference


Phyllis Shiller, Laboratory Director
April 29, 2019

Monday, April 29, 2019

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCD00633 - BARNHARD

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

April 29, 2019

SDG I.D.: GCD00633

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: Barnhardt

Address: PO Box 3 247 Main Rd
Colman Mass 01340

Project: NPDES (Bi-monthly) April

Report to: Keith Gamill

Invoice to: Barnhardt

QUOTE #

Project P.O: C-10513

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 4/24/19

Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil
B=Bulk L=Liquid X = (Other)

PHOENIX USE ONLY
SAMPLE # 00433
Customer Sample Identification: effluent
Sample Matrix: WW
Date Sampled: 4/24/19
Time Sampled: 7am

Analysis Request

TKN/Total Nitrogen/Nitrate

GL Amber 8 oz W/H3PO4
GL Soil container (methanol) H2O
GL Soil container ()
GL Amber 100ml (As is) HCl
PL H2SO4 (1250ml) (500ml) (1000ml)
PL HNO3 250ml
PL NaOH 250ml
Bacteria Bottle as is
Bacteria Bottle white

Relinquished by: [Signature]

Date: 4-24-19 1335

Time: 1335

RI

CT

MA

Data Format

Comments, Special Requirements or Regulations:
guy / KT signature 4/24/19 1100

Direct Exposure (Residential)
GW
Other

RCP Cert
GW Protection
SW Protection
GA Mobility
GB Mobility
Residential DEC
I/C DEC
Other

MCP Certification
GW-1
GW-2
GW-3
S-1 GW-1
S-1 GW-2
S-1 GW-3
S-2 GW-1
S-2 GW-2
S-2 GW-3
S-3 GW-1
S-3 GW-2
S-3 GW-3
MWRA eSMART
Other

Excel
PDF
GIS/Key
EQUS
Other
Data Package

Tier II Checklist
Full Data Package
Phoenix Std Report
Other

Turnaround Time:
1 Day*
2 Days*
3 Days*
Standard
Other

State where samples were collected: MA

* SURCHARGE APPLIES